

**JAMAL MOHAMED COLLEGE (Autonomous)  
TIRUCHIRAPPALLI – 20**



**RESUME**

**Department of CHEMISTRY (Aided)**

**1. Name :** Dr. A. ZAHIR HUSSAIN

**2. Date of Birth :** 15-06-1969

**3. Address: (including Mail ID and Telephone Number)**

**Residential:**

7A/1, Ganthi Nagar, First Cross Street,  
Subramaniyapuram,  
Tiruchirappalli – 620 020  
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**Office:**

PG and Research Department of Chemistry  
Jamal Mohamed College (Autonomous)  
Tiruchirappalli – 620 020

**4. Designation :** Associate Professor

**5. Educational Qualifications:**

|   | <b>Examination Passed</b> | <b>Year</b> |
|---|---------------------------|-------------|
| (i). Master's Degree :                          | M.Sc                      | 1993        |
| (ii). Research Degree :                         | M.Phil                    | 1999        |
|   | Ph.D                      | 2005        |
| (iii). NET / SLET :                             | SLET                      | 2000        |
| (iv). Any other Degree/<br>Diploma/Certificate: | M.Ed                      | 1999        |
|   | M.Phil(Edu)               | 2008        |
|   | P.G.D.G.C                 | 2015        |

**6. Experience:**

|                      |          |    |
|----------------------|----------|----|
| <b>Undergraduate</b> | <b>:</b> | 25 |
| <b>Postgraduate</b>  | <b>:</b> | 25 |
| <b>M.Phil.</b>       | <b>:</b> | 15 |

**7. Area of Specialization :** Environmental Chemistry,  
Phyto Chemistry, Pharmaceutical Chemistry

**8. Languages Known :** Tamil, English

**9. Subject Taught :**

|                      |  |
|----------------------|--|
| <b>Undergraduate</b> | : General Chemistry, Medicinal chemistry     |
| <b>Postgraduate</b>  | : Organic Chemistry, Nano Chemistry          |
| <b>M.Phil</b>        | : Research Methodology, Teaching Methodology |

**10. Research Supervision:**

**M.Phil Degree – Completed - : 62**

**Pursuing- : 02**

**Ph.D. Degree – Completed - : 07**

**Pursuing- : 03**

**11. Details of Publications:**

**List of Paper Publications**

1. The bacteriocidal property of *Tridax* leaf and clove extracts on *Salmonella species*, **Pollution Research**, 21 (4), 451-453, 2002.
2. Impact of discharge of sewage on the quality of Uyyakondan Channel water of river Cauvery at Tiruchirappalli”, Indian. **Journal of Environmental Protection**, 23 (6), 660-662, 2003.
3. Studies on Ground water Pollution of Tannery Effluent At Sempattu, . Tiruchirappalli, Tamil Nadu; **JARJ: Int.**, Vol 1, (2) 7-9, 2004.
4. Water Quality Index of Uyyakondan channel of river Cauvery at Tiruchirappalli. **IJEP** 25(10):941-942 (2005).
5. Assessment of ground water quality on the banks of Uyyakondan channel of rivers Cauvery at Tiruchirappalli; **IJEP** 27(8): 713-716 (2007).
6. Removal of heavy metals from waste water using activated rice husk carbon as adsorbent **IJEP** 29(3): 263-265(2009).
7. Synthesis of  $\text{LiMn}_2\text{O}_4$  by molten salt technique. **Ionics Springer** DOI 10.1007 / s 11581-009-0379-4 (2010).
8. Seasonal variation in Physico-chemical characteristics of ground water on the bank of Uyyakondan channel of river Cauvery at Tiruchirappalli. **Curr.World Environ:** Vol 4(2): 341-346(2009).
9. GC-ms Analysis and Antimicrobial Activity of *Acalypha indica* Linn, **Asian Journal of Chemistry**, Vol. 22, No. 5 (2010), 3591-3595
10. Monitoring the quality of Groundwater on the bank of Uyyakondan Channel of river Cauvery at Tiruchirappalli, Tamil Nadu, India, **Springer** Vol. 10.1007/S/10661-2011-1910-
11. Monitoring the Quality of Groundwater contamination in and Around Tiruppur Region,

Tamilnadu, INDIA, **Research Journal Pharmaceutical, Biological and Chemical Sciences**, Vol. 3 Issue 4, ISSN: 0975-8585, 107-115, 2012

12. Monitoring the quality of groundwater on the bank of Cooum River at Chennai City, Tamil Nadu, India, **Adv. Appl. Sci. Res.**, 2012, 3(6):3587-3592
13. Synthesis, Characterization and antimicrobial activity of some hydrazones of 2-amino-5-chloro benzophenone, **Elixir Appl. Chem.** 62 (2013)17737-17739
14. Study of groundwater pollution oat Sukkaliyur in Karur District, Tamil Nadu, **Adv. Appl. Sci. Res.**, 2013, 4(4):461-464
15. Status of heavy metal concentrations in groundwater samples situated in and around on the bank of Cooum river at Chennai City, Tamil Nadu, **J. Chem. Pharm. Res.**, 2013, 5(3):73-77
16. Assessment of groundwater pollution on the bank of river Amaravathi at Karur district, Tamil Nadu”, **Adv. Appl. Sci. Res.**, 2013, 4(4):6-10
17. Study of Groundwater Quality at Dindigul Town, Tamil Nadu, India, **Int. Res. J. Environment Sci.** Vol. 2(1), 68-73, January 2013.
18. Phytochemical and antimicrobial evaluation of *Oldenlandia corymbosa*”, **Asian J. Plant Sci. Res.**, 2013, 3(4):155-158
19. GC-MS analysis and antibacterial evaluation of *Acalypha indica*, **Asian Journal of Plant Science and Research**, 2013, 3(6):46-49
20. Bactericidal property of *Andrographis paniculata* and aloe vera extracts on *Salmonella typhi* species. **Asian Journal of Plant Science and Research**, 2013, 3(6):50-52
21. GC-MS analysis and antimicrobial activity of *Hygrophila auriculata*” **Archives of Applied Science Research**, 2013, 5 (5):163-168
22. GC-MS analysis and phytochemical screening of *Indoneesiella echinoids* (L.) Nees. **Archives of Applied Science Research**, 2013, 5 (5):159-162
23. Phytochemical and Antimicrobial evaluation of *spermacoce hispita* . L, **World Journal of Pharmacy and Pharaceutical Sciences**, Vol.3, Issue 10, 593-599. 2014
24. GC-MS analysis and antrimicrobial actitvity of *Abrus precatorius*. L, **J. Microbial.Biotech. Res.**, 2014, 4 (5):24-30
25. GC-MS analysis and antrimicrobial actitvity of *Oldendlandia Corymbosa*, **J. environ. Nanotechnol.** Vol 3, No. 2pp. 161-167. 2014

26. GC-MS analysis and Phytochemical screening of *Sesbania grandiflora* L. **Journal of Chemical and Pharmaceutical Research**, 2014, 6(9): 43-47
27. Phytochemical analysis and antimicrobial evaluation of *Evolvulus alsinoides* L. **Der Chemical Sinica**, 2014, 5(5):1-6
28. Phytochemical analysis and antimicrobial evaluation of *Abrus precatorius* L. **Asian Journal of Plant Science and Research**, 2014, 4(5):10-14
29. Antimicrobial activity and heavy metal analysis of *Ipomoea obscura*.L, **J. Microbial. Biotech.Res.**, 2014, 4(5):18-23
30. Synthesis , Characterization and Antibacterial Activity of 5-chloro-7-Substituted Indole-2, 3-Dione, **World Journal of Pharmacy and Pharmaceutical Sciences**. Vol3. Issue 12, 968-974. 2014
31. Assessment of Groundwater Quality on the bank of Amaravathi River, Karur Town, Tamil Nadu, India, **World Journal of Pharmacy and Pharmaceutical Sciences**. Vol.3, Issue 12. 2014
32. Statistical evaluation of groundwater quality in and around Dindigul region, Tamil Nadu, India, **Advances in Applied Sciences Research**, 2014, 5(6):246-251
33. Removal of heavy metals from wastewater using low cost adsorbents, **Advances in Applied Sciences Research**, 2014, 6(6):52-54
34. Removal of heavy metals from wastewater using sugarcane leaf as adsorbent. *Der Chemica Sinica*, 2014,5(4):56-58.
35. Synthesis, Characterization and Antibacterial Activity of Some Isatin based Schiff Base Compounds, **Research Journal Pharmaceutical, Biological and Chemical Sciences**, January-February 2015.6(1)
36. Distribution of heavy metal concentrations in groundwater samples on the bank of Noyyal River at Tiruppur, Tamil Nadu, **Asian Journal of Biochemical and Pharmaceutical Research**, Issue 1 (Vol, 5), 2015
37. Assessment of Groundwater Quality for Irrigation on the bank of Noyyal River at Tiruppur, Tamil Nadu, India, **International Letters of Chemistry, Physics and Astronomy** Vol. 57 (2015) pp 1-6
38. Study on ground water pollution at Tiruchirappalli town, Tamil Nadu, **Advances in Applied Science Research**, 2015, 6(5):1-5

39. Monitoring the quality of ground water pollution in and around Trichy town, Tamilnadu, **Der Chemica Sinica**, 2015, 6(4):39-42
40. Assessment of Water Quality Index for the Groundwater in and around Dindigul town, Tamilnadu, India. **International Journal of Nano Corrosion Science and Engineering**, Vol.2(5),2015, 25-30
41. GC-MS analysis and Phytochemical studies of *Evolvulus alsinoides* L. **International Journal of Nano Corrosion Science and Engineering**, Vol.2(5),2015, 58-63
42. Correlation Study of Groundwater quality on the bank of Noyyal River at Tiruppur, Tamilnadu, India. **International Journal of Nano Corrosion Science and Engineering**, Vol.2(5),2015, 197-202
43. Study of Groundwater quality for drinking and Irrigation purpose in and around Tannery industry area of Dindigul town, Tamilnadu, India. **International Journal of Nano Corrosion Science and Engineering**, Vol.2(5),2015, 335-346
44. Studies on heavy metal pollution of ground water in and around Trichy town, Tamilnadu, India - **Advances in Applied Science Research**, 2015, 6(8): 155-160.
45. Removal of Heavy Metals from Ground Water using Eucalyptus Carbon as Adsorbent - **International Journal of ChemTech Research**, Vol.9, No.03 pp 254-257, 2016.
46. Assessment of Physico-Chemical quality of Ground Water samples in and around Trichy Town, Tamilnadu, India - **Archives of Applied Science Research**, 2016, 8(4):31-34
47. Physico-Chemical Characteristics of Ground Water samples in and around Tiruchirappalli Town, Tamilnadu, India – **International Journal of Applied Sciences and Engineering Research**, Vol 5, Issue 3, June 2016.
48. Biosorption of heavy metals by clostridium sp bacteria, **World Journal of Pharmaceutical Research** (2016). Vol 5, Issue 10, pp 605-608. ISSN: 2277-7105.
49. Biosorption of heavymetals by pseudomonous bacteria – **IRJET**, Vol:3, Issue: 08, Aug 2016, ISSN : 2395-0056, p ISSN 2395-0072.
50. Study on ground water pollution at Tiruchirappalli town, Tamil Nadu - **Advances in Applied Science Research**, 2015, 6(5):1-5.
51. Physico – Chemical Analysis of Selected Ground Water Samples in and around Trichy town, Tamilnadu - **International Journal of Nano Corrosion Science And Engineering**, 2(6) (2015) 131-138, ISSN Online: 2395-7018

52. Study of water quality index of groundwater on the bank of Noyyal River at Tiruppur, Tamil Nadu, India. **Archives of Applied Science Research**. 8 (1):17-19, 2016.
53. Adsorption of heavy metals by chitosan coated zerovalent iron Nano particles. **International research journal of multidisciplinary science & Technology**. Volume 1 Issue :06/ October-2016.pp37-41.
54. Synthesis, characterization and antimicrobial activity of 5-Substituted indole-2,3-dione based 4-Thiazolidione derivatives. **Chemical science Transactions**. ISSN:2278-3458. 2016,5(1), 265-271.
55. Study of Trace Metals Concentrations In Groundwater Of Dindigul Town, Tamilnadu, India. **International Journal Of Recent Scientific Research**, Vol. 8, Issue, 12, Pp. 22239- 22242, December, 2017.
56. Physicochemical analysis of selected groundwater samples in and around Dindigul town, Tamilnadu, India. **International Journal of Applied Research** 2017; 3(4): 118-122.
57. Evaluation of ground water quality and its suitability for irrigation use on the bank of Noyyal river at Tiruppur, Tamilnadu, India. **Environmental pollution and protection**, Vol.2, No. 3, September 2017. PP 100-109.
58. Statistical analysis of groundwater quality on the bank of Noyyal River at Tiruppur, Tamilnadu, India. **Env. Poll. and Protection**. 2017.
59. Phytochemical screening and GC-MS analysis of andrographis echinoides leaves extract, **ejbps**, 2018 , Volume 5, Issue 02 889-893.
60. Carboxymethyl lignin bio polymer and microcrystalline cellulose as a surface coating additive to improve the properties of paper on starch surface sizing **International journal of research in advent technology** ,Vol.6,No.6,June 2018 E-ISSN:2321-9637 1282-1289.
61. Synthesis and characterization of carboxymethyl lignin bio-polymer/ starch /montmorillonite clay blends An International refereed,Peer Reviewed & Indexed Quarterly Journal in Science, **Agriculture & Engineering** ISSN 2277-7601, Vol. VIII.2018.
62. Microwave Assisted Synthesis and Characterization of Carboxymethyl Lignin Biopolymer from Kraft Lignin obtained from Biomass of Bagasse Pulp, **International Journal of Scientific Research and Reviews**, 7(3), 1476-1487, 2018.

63. Phyto chemical screening and GC MS analysis of *Tridax procumbens* leaves **IJGHC**, DOI 1024214 Vol.7, No 2 E-ISSN:2278-3229,126-134,2018
64. Phyto chemical profiling and LC-MS analysis of *Enicostema axillare* leave extracts .  
**journal of scientific computing** Vol 9 issue 2 2020 ISSN NO 1524-2560
65. Priliminary Phyto chemical screening and LC-MS analysis of of *andrographis echioides*  
**.Sambodhi UGC Care journal** Vol 43 NO. 03VIII July- September 2020
66. Qualitative Phyto chemical screening and LC-MS analysis in *Anisomeles malabarica*(L.)R.Br. **Journal of the Maharaja Sayajirao University of Baroda** Vol 54 NO. 023XI .2020
67. Phyto chemical and elemental analysis of *andrographis echioides* (Acanthaceae) leaves by using LC –MS Techniques.**Infokara Research journal** Vol 9 NO. 9, 2020
68. Synthesis and Characterization of Green CuO using *Centella Asiatica* Plant Leaf Extract: Electrochemical and Photocatalytic Activities, **Advanced Material Letters**, Volume 11, Issue 12 , December 2020, Pages 1-6.
69. Antimicrobial and Antioxidant activity of *Androgrphis echioides* (L) Nees Leaves Extract. **International Journal of Biology, Pharmacy and Allied Sciences** Vol 10(11) No.1-15, 2021
70. Antimicrobial and Antioxidant activity of *Anisomeles malabarica* (L) R. Br Leaves Extract. **International Journal of Biology, Pharmacy and Allied Sciences** Vol 10(11) No.16-31, 2021.
71. Structural, electrochemical sensor and photocatalytic activity of combustion synthesized of novel ZnO doped CuO NPs **Materials Research Express**, Volume 10, Number 7,2023.

## 12. Details of Paper Presented:

1. Presented the paper in the National Seminar on “Pollution a threat to the Nation” paper entitled as “Extraction and Determination of the Amino acid derivatives present in certain medicinal plants held at Bishop Heber College, Tiruchirappalli, on 8th, 9th March 2001.
2. Presented the paper in the National Seminar on “Pollution a threat to the Nation” paper entitled as “Effect of Ethanol Common cause on the Cirrhosis Liver Protein And Enzymatic Analysis held at Bishop Heber College, Tiruchirappalli, on 8th, 9th March 2001.

3. Presented Paper in the National Seminar in the title of “Educational Technology” organized by All Indian Tamil Scientific association held at Tamil University, 24, 25 March 2001.
4. Presented the paper in the National Conference on Integrating Technology into Teaching and learning, paper entitled as “Information Technology in Higher Education” held at Bharathidasan University, Tiruchirappalli, on 9th , 10<sup>th</sup> February 2002.
5. Presented the paper in the State Level Seminar on Environmental Pollution paper entitled as “Studies on Ground Water Pollution by tannery effluent at Sempattu, Tiruchirappalli”, held at Paramakalyani Arts and Science College, Cuttralam on December 2002.
6. Presented Paper in the National Seminar in the title of “Biotechnology in Daily life” organized by All Indian Tamil Scientific association held at Periyar Maniyammai Engineering College, 9, 10 March 2002.
7. Presented the paper in the National Teacher’s Science Conference, paper entitled “Studies on water quality index for Uyyakondan Channel of River Cauvery at Tiruchirappalli”. 9-13th September 2004, Ujjain (M.P).
8. Presented the paper in the National Conference on effect of climatic charge and sustainable Resource development paper entitled Seasonal Variation of Physico-chemical characteristic at Uyyakondan channel of river Cauvery at Tiruchirappalli, Tamilnadu 22nd and 23rd Jan 2009. SRM University, Chennai.
9. Paper presented in the International Conference on Industrialization of Institutional Research on Phyto medicines. The paper entitled phyto chemical and Anti Microbial studies of Aerra Lanata. L. on 8th and 9th Jan 2009 at P.S.G.R. Krishnammal College for women Coimbatore.
10. Paper presented in the International Conference on Industrialization of Institutional Research on Phyto medicines. The paper entitled as phyto chemical studies of Adathoda Vasica.. Linn. on 8th and 9th Jan 2009 at P.S.G.R. Krishnammal College for women Coimbatore.
11. Presented the paper in the International Symposium paper entitled Physico-chemical Study of Uyyakondan Channel Water of river Cauvery, Tiruchirappalli, Tamilnadu 23rd Jan 2010 at Bharathidasan University, Tiruchirappalli.



12. Presented the paper in the State level seminar on “New Vistas in Chemistry”. The paper entitled is Removal of Heavy Metals from Industrial Waste Water by Activated Carbon. 4<sup>th</sup> and 5<sup>th</sup> January 2012 at Jamal Mohamed College, Trichy.
13. Presented the paper in the National Conference on “Current Trend in Chemistry Research (NCTCR-2013)”. The paper entitled is GC-MS Analysis and antibacterial Evaluation of *Acalypha Indica*, 27<sup>th</sup> and 28<sup>th</sup> February 2012 at Jamal Mohamed College, Trichy.
14. Presented the paper in the National Conference on “Current Trend in Chemistry Research (NCTCR-2013)”. The paper entitled is Assessment of Heavy metals in Groundwater samples of certain locations situated in and around on the bank of Cooum River at Chennai – A case Study. 27<sup>th</sup> and 28<sup>th</sup> February 2013 at Jamal Mohamed College, Trichy.
15. Presented the paper in the National Conference on “Current Trend in Chemistry Research (NCTCR-2013)”. The paper entitled is GC Synthesis, Characterization and antimicrobial Activity of some Substituted Hydrazones of 2-amino-5- chlorobenzophenone . 27<sup>th</sup> and 28<sup>th</sup> February 2013 at Jamal Mohamed College, Trichy.
16. Presented a paper entitled as “Assessment of Heavy metals in Ground Water samples of certain locations situated in and around on the bank of Cooum River at Chennai – a case study” in the National Conference on current trend in Chemistry Research (NCTCR-2013) conducted by the PG and Research Department of Chemistry, Jamal Mohamed College on 27<sup>th</sup> and 28<sup>th</sup> February 2013.
17. Presented a paper entitled as “GC-MS Analysis and antibacterial evaluation of *Acalypha Indica*” in the National Conference on Current trend in Chemistry (NCTCR – 2013) conducted by the PG and Research Department of Chemistry, Jamal Mohamed College on 27<sup>th</sup> and 28<sup>th</sup> February 2013.
18. Presented a paper entitled as “Synthesis, characterization and antimicrobial activity of some substituted hydrazones of 2-Amino-5-chlorobenzophenone” in the National Conference on Current trend in Chemistry (NCTCR – 2013) conducted by the PG and Research Department of Chemistry, Jamal Mohamed College on 27<sup>th</sup> and 28<sup>th</sup> February 2013.

19. Presented the paper in the National Level Seminar on Nano Science and Laser Materials Processing. The paper entitled is synthesis and Characterization of CuO Nano particles. 9<sup>th</sup> March, 2013 at Jamal Mohamed College, Trichy.
20. Presented a paper entitled as “Statistical evaluation of groundwater quality in and around Dindigul region, Tamil Nadu, India,” in International Conference on Chemistry in Synergy with Materials and Biology (ICMB-2014) by the PG and Research Department of Chemistry, Bishop Heber College (Autonomous) on 10<sup>th</sup> and 11<sup>th</sup> January 2014.
21. Presented a paper entitled as “Synthesis, Characterization and Antimicrobial Activity of 5-chloro-7-substituted indole-2,3-dione” in International Conference on Chemical and Environmental research (ICCER-2014) by the PG and Research Department of Chemistry, Jamal Mohamed College on 11<sup>th</sup> and 12<sup>th</sup> March 2014.
22. Presented a paper entitled as “Synthesis, Characterization and Antimicrobial Activity of Some Acetophenone Semicarbazones” in the Two day National Conference on Current Scenario in Material Chemistry (CSIMC-2015) by the PG and Research Department of Chemistry, Jamal Mohamed College on 09<sup>th</sup> and 10<sup>th</sup> February 2015.
23. Presented a paper entitled as “GC-MS analysis and Phytochemical studies of *Evolvus alsinoides* L” in International Conference on Chemical and Environmental research (ICCER-2015) by the PG and Research Department of Chemistry, Jamal Mohamed College on 17<sup>th</sup> December 2015
24. Presented the paper in the International Conference on Nanotechnology entitled as Adsorption of Rhodain-B from aqueous solution using Nano Zn-Al-Fe<sub>3</sub>O<sub>4</sub> held at VTU, Muddenhalli, Karnataka on 21-23<sup>rd</sup> April 2016.
25. Presented the paper in the International Conference on Chemical and Environmental Research entitled as Groundwater quality and its suitability for irrigation purposes on the bank of Noyyal River at Tiruppur, Tamilnadu, India held at Jamal Mohamed College, Tiruchirappalli on 07<sup>th</sup> January 2017.

26. Presented the paper in the National Seminar on Removal of heavy metals from aqueous solution by chitin and chitosan nanoparticle held at Jamal Mohamed College, Tiruchirappalli on 15<sup>th</sup> February 2017
27. Presented the paper in the National Seminar on Removal of heavy metals from aqueous solution by chitin and chitosan nanoparticle held at Jamal Mohamed College, Tiruchirappalli on 15<sup>th</sup> February 2017.
- 28.. Presented a paper entitled as on Green synthesis silver Nanoparticles using Andrographis echinoides leaves extracts in International Conference on Frontiers in Advanced Materials and their Applications held at Bishop heber College, Trichy on 09.01.2018.
29. Presented a paper entitled as Seasonal Variation of Heavy Metal Contamination of Ground water in and Around Amaravathi River Karur Town, Karur District, Tamil Nadu in National Conference on Recent Developments In Chemistry (NCRDC-2018) organized by the PG and Research Department of Chemistry, Jamal Mohamed College(Autonomous), Trichirappalli on 20<sup>th</sup> January 2018.
30. Presented a paper entitled as ..... in international conference on recent trends in synthetic methods and materials chemistry(RTSMC-2018) organized by the PG and Research Department of Chemistry, Annamalai University on 2&3 February 2018.
31. Presented a paper entitled Carboxy methyl lignin bio polymer and Microcrystalline cellulose as a surface coating additive to improve the properties of paper on starch surface sizing in the ICCER 2018 held at Jamal Mohamed College, Tiruchirappalli on 19<sup>th</sup> December 2018.
- 32 .Presented a paper in a Two day National conference RIPC 2019 at JJ college of Arts and SCIENCE college Pudukkottai August 22 nd 2019
33. Presented a paper entitled phyto chemical screening and LC- MS Analysis in Anisomeles Malabarica leaves Extract in the ICCER 2020 held at Jamal Mohamed College, Tiruchirappalli on 8<sup>th</sup> January 2020

### **13. Details of Seminars / Conferences / Workshops Attended:**

1. International seminar on “Placer Deposits” held at Tamil university, Thanjavur, Tamilnadu. 14-20<sup>th</sup> December 1999.
2. Participated in the Brain storming session on “Coastal resources management and conservation” held at Tamil University, Tanjore from 21<sup>st</sup> and 22<sup>nd</sup> January 2000.
3. Participated in National seminar on “Atomic Energy, Ecology and Environment” held at Jamal Mohamed College, Tiruchirappalli, and Tamilnadu on 8<sup>th</sup> and 9<sup>th</sup> February 2001.
4. Participated in the National Seminar on “Canadian Studies” held at Jamal Mohamed College on 27<sup>th</sup> -29<sup>th</sup> March 2003.
5. Participated in the UGC Sponsored National Symposium on “Recent Trends in Heterocyclic Chemistry (NSRTHC-2004)” Conducted by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchippalli-20 during 24<sup>th</sup> and 25<sup>th</sup> September 2004.
6. Participated in the National Workshop on Green Chemistry on 15<sup>th</sup> and 16<sup>th</sup> July 2005 held at Madurai Kamaraj University, Madurai
7. TANSCH and UGC sponsored three day workshop on curriculum Development and Evaluation organized by UGC academic Staff College, Bharathidasan University at Jamal Mohamed College on 2-4<sup>th</sup> March 2006.
8. Participated in the UGC sponsored State Level Seminar on “Emerging Trends in Chemistry” Jamal Mohamed College, Tiruchirappalli 9<sup>th</sup> March 2006.
9. Participated in the seminar on “Advanced Topics in chemistry” Jamal Mohamed College, Trichy on 13<sup>th</sup> & 14<sup>th</sup> March 2007.
10. Participated in the one day workshop on “Training of Placement Officers” Jamal Mohamed College, Trichy on 30<sup>th</sup> August 2007.
11. Participated in the National Symposium on Frontier areas in Chemistry held on 10<sup>th</sup> and 11<sup>th</sup> January 2008 at American College, Madurai.

12. Participated in the State level Seminar on Modern Techniques in Chemistry on 5<sup>th</sup> and 6<sup>th</sup> March 2008 at Jamal Mohamed College, Trichy.
13. Participated UGC Sponsored National level conference on Business model Innovation – “Emerging trends in Grass roots Level Entrepreneurship” held on 24<sup>th</sup> and 25<sup>th</sup> February 2009 at St. Joseph’s College of Commerce, Bangalore.
14. Participated in the three day work shop on “Training of Placement Officer”, Jamal Mohamed College on 1- 3<sup>rd</sup> March, 2009.
15. Participated in the State level Seminar on Frontier areas in chemistry held on 9<sup>th</sup> & 10<sup>th</sup> February, 2010 Jamal Mohamed College Trichy.
16. Participated in the state level seminar on Frontier areas in chemistry held on 9<sup>th</sup> & 10<sup>th</sup> February, 2010 Jamal Mohamed College Trichy.
17. Participated in NAAC sponsored National Level Seminar on Quality Enhancement in Teaching, Research and Extension in higher Education Institutions-Prospects and Problems held on 15<sup>th</sup> and 16<sup>th</sup> April, 2010 at Jamal Mohamed College, Trichy.
18. Participated in State Level Seminar on Recent Trends in Chemical Research (RTCR- 2010) held on 5<sup>th</sup> and 6<sup>th</sup> October 2010 at Jamal Mohamed College, Trichy.
19. Participated in Seminar on “Creating Competitiveness to excel in higher education- a TQM approach”, held on 8<sup>th</sup> December 2010 at Jamal Mohamed College, Trichy.
20. Participated in “International Symposium on Trace Organic Pollutants in the Environment”, held on 23<sup>rd</sup> January 2010.
21. Participated in Two days BRNS and IANCAS workshop on Radio Chemistry and application of Radio Isotopes, held on 18<sup>th</sup> and 19<sup>th</sup> 2010 at Indian association of Nuclear Chemists and Allied Scientists, Mumbai.
22. Participated in workshop on “Frontiers in Catalysis Research” held on 1<sup>st</sup> October, 2010 at National College, Trichy.

23. Participated in National Conference on “Explorations of the Natural Bioactive Compounds from the Marine resources, held on 10<sup>th</sup> and 11<sup>th</sup> February 2011 at Bharathidasan University, Tiruchirappalli.
24. Participated in National conference on “New Renaissance in Chemical Research”, held on 4<sup>th</sup> March 2011 at SRM University, Chennai.
25. Participated in UGC sponsored “National Conference on Emerging Trends in Chemistry (NCETC-2012)”, held on 11<sup>th</sup> January 2012 at Bishop Heber College, Tiruchirappalli.
26. Participated in “A One day State level Seminar on Online Access to Research Journals and Books”, held on 12<sup>th</sup> January at Jamal Mohamed College, Trichy.
27. Participated in the National Seminar on “Environmental Changes and Bio wealth (NECB-2012)” held 31<sup>st</sup> January at Jamal Mohamed College, Trichy.
28. Participated in “National Conference on Marine Environmental Challenges and Coastal Zone Management Strategy” Marina’12, held on 13<sup>th</sup> and 14<sup>th</sup> Feb.2012 at BharathidasanUniversity, Tiruchirappalli.
29. Participated in A One Day Seminar on “Teaching. Learning and Research in Education – Excellence and Beyond Excellence” held on 7<sup>th</sup> March at Jamal Mohamed College, Trichy.
30. Participated in “A Two Day Faculty Development Programme on soft Skills conducted by IQAC” held on 4<sup>th</sup> and 5<sup>th</sup> January 2013 at Jamal Mohamed College, Trichy
31. Participated in One day National Seminar on “Recent Trends in Life Sciences” (RTLS- 2015) on 25-2-2015 at P.G and Research Department of Biotechnology, Jamal Mohamed College, Trichy.
- 32 .Attended the International conference ICSTS 2019 at EWIT Bengaluru May 13,14 and 15<sup>th</sup> 2019
33. Attended the One Day Orientation Programme on Soft Skills Development held at Jamal Mohamed College, Tiruchirappalli on 22<sup>nd</sup> June 2018.

34. Attended the One Day Seminar on The MHRD Draft proposal for Higher Education Commission held at Jamal Mohamed College, Tiruchirappalli on 14<sup>th</sup> July 2018.
35. Attended the UGC CPE Sponsored Two Day work shop on professional development for academic leadership in curriculum design held at Jamal Mohamed College, Tiruchirappalli on 18<sup>th</sup> and 19<sup>th</sup> January 2019.
36. Attended the Staff Enrichment programme on Ownership culture organised by IQAC held at Jamal Mohamed College, Tiruchirappalli on 14th June 2019.

**14. Details of Seminars / Conferences / Workshops Organized:**

1. State level Seminar on Emerging Trends in Chemistry at Jamal Mohamed College, Trichy – 20, March 09, 2006
2. One day workshop on “**Training of Placement Officer**”, Jamal Mohamed College, Trichy on 30<sup>th</sup> August 2007.
3. Seminar on Advanced Topics in Chemistry at Jamal Mohamed College, Tiruchi – 20, on March 13-14, 2007.
4. Three day work shop on “**Training of Placement Officer**”, Jamal Mohamed College on 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> March, 2009
5. State level Seminar on Frontier Studies in Chemistry at Jamal Mohamed College, Trichy – 20, February 09-10, 2010
6. State Level Seminar on New Vistas in Chemistry (NVC-2012), Jamal Mohamed College, January 4-5, 2012
7. Two-day National conference on Current Scenario in Material Chemistry (CSIMC 2015), Jamal Mohamed College, Tiruchirappalli, 9-10, February 2015.
8. Convener and Organizing Secretary, International Conference on Chemical and Environmental Research (ICCER-2015), Jamal Mohamed College, on 17<sup>th</sup> December 2015.
9. International Conference on Chemical and Environmental Research (ICCER-2016), Jamal Mohamed College, 17th December 2016
10. International Conference on Chemical and Environmental Research (ICCER-2017), Jamal Mohamed College, 7th January 2017
11. International Conference on Chemical and Environmental Research (ICCER-2018), Jamal Mohamed College, 7th January 2018

12. International Conference on Chemical and Environmental Research (ICCER-2019), Jamal Mohamed College, 7th January 2019.
13. International Conference on Chemical and Environmental Research (ICCER-2020), Jamal Mohamed College, 8th January 2020.

**15. Details of Orientation / Refresher Courses/ Short Term Course/ Attended:**

1. Completed the orientation course held at UGC-Academic staff-College-BARD on 02.05.07 to 29.05.07
2. Completed the Refresher course held at UGC-Academic Staff-College-BARD on 06-10-10 to 26-10-10
3. Completed the Refresher course held at UGC-Academic Staff-College-BARD on 01-02-14 to 21-02-14
4. Completed one week (Full Day) e-Faculty Development Programme on Making Higher Education Value Based, Innovative & Research Oriented for Resurgence at Maharaja Agrasen Institute of Management Studies, New Delhi on 24<sup>th</sup> June – 30<sup>th</sup> June, 2020.
5. Completed the Short term course held at HRDC University of Hyderabad on 27-07-2020 to 01-08-2020
6. Completed the Short Term course held at HRDC University of Hyderabad on 03-08-2020-to 08-08-2020
7. Completed the Short Term Course held at HRDC University of GOA on 08-09-2020 to 14-09-2020.
8. Completed the Online Course with Faculty Development Programme on Medicinal Chemistry in NPTEL (SWAYAM) during Jan. 2020 – April 2020.
9. Completed the Online Course with Faculty Development Programme on Industrial inorganic Chemistry in NPTEL (SWAYAM) during Jan. 2020 – April 2021.

**16. Details of Study Materials / Books Written and Published:**

1. “Development and Application of Educational Technology” All India Scientific Tamil Association Book Vol. 13, 35-40 (2001)
2. “Bio Technology in Daily Life” All India Scientific Tamil Association Book, Vol. 13. 11-16 (2002)



**17. Details of Chairing as Resource Person:**

1. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 26-07-2009 at Bharathidasan University, Trichy
2. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 16-08-2009 at Bharathidasan University, Trichy
3. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 06-09-2009 at Bharathidasan University, Trichy
4. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 10-11-2010 at Govt Arts College, Kumbakonam.
5. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 13-11-2010 at Govt Arts College, Kumbakonam.
6. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 14-11-2010 at Bharathidasan University, Trichy.
7. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 07-12-2010 at Govt Arts College, Kumbakonam.
8. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 27-06-2011 at TUK Arts College, Karanthai, Thanjavur.
9. Acted as Resource person to Conducted the guest lecture on Nanomaterials, on 09-12-2011 at MAM College of Engineering, Trichy
10. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 12.12.2011 at Govt Arts College, Kumbakonam.
11. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 15.12.2011 at Govt Arts College, Kumbakonam.
12. Acted as Resource person to deliver a guest lecture on Teaching and Research aptitude on 02-02-2012 at Nehru Memorial College, Puthanampatti.
13. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 18-02-2012 at Govt Arts College for women, Kumbakonam.
14. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 23.02.2012 at Govt Arts College for Women, Kumbakonam.

15. Acted as Resource person for teaching aptitude and people environment on 29-05- 2012 at Erode arts and Science College, Erode.
16. Acted as Resource person to deliver a guest lecture on Guidelines for success in UPSC Examinations on 13-07-2012 at Aalim Muhammed Saleah College, Chennai.
17. Acted as Resource person to deliver a guest lecture on How to succeed the competitive Examinations on 22-09-2012 at Nehru Memorial College, Puthanampatti.
18. Acted as Resource person to deliver a guest lecture on General Knowledge for various competitive Examinations on 07-07-2012 at Nehru Memorial College, Puthanampatti
19. Acted as Resource person to deliver a special lecture on “Logical Reasoning” on 08-09-2012, at Nehru Memorial College, Puthanampatti
20. Acted as Resource person to deliver a guest lecture on Exploring Job Opportunities in Government Organizations on 29-09-2012 at Nehru Memorial College, Puthanampatti.
21. Acted as Resource person for UGC Sponsored coaching classes for Entry in Services on 08-02-2013 at Poompuhar College, Melaiyur
22. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 21-04-2013 at Bharathidasan University, Trichy
23. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 04-05-2013 at Bharathidasan University, Trichy
24. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 06-06-2013 at Bharathidasan University, Trichy
25. Acted as Resource person to deliver a special lecture on “People and Environemnt” on 06-07-2013 at TUK Arts College, Karanthai, Thanjavur.
26. Acted as Resource person to deliver a Special Lecture on “Chemistry in Every Day Life” on 17-08-2013 at Cauvery College for Women, Trichy.
27. Acted as Resource person to deliver a special lecture on “Teaching Aptitude” on 24-08-2013 at TUK Arts College, Karanthai, Thanjavur
28. Acted as Resource person to deliver a Special Lecture on “Chemistry in Every Day Life” on 31-08-2013 at Vivekananda College of Arts and Science for the Women, Thiruchengode, Namakkal

29. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 30-12-2013 at Bharathidasan University, Trichy
30. Acted as Resource person to deliver a Special Lecture on “Chemistry in Every Day Life” on 23-01-2014 at Sri Saradha College for Women, Perambalur.
31. Acted as Resource person to deliver a Special Lecture on “Chemistry in Every Day Life” on 30-01-2014 at J.J College of Arts and Science, Trichy.
32. Acted as Resource person to deliver a Special Lecture on “Industrial applications in Chemistry” on 28-03-2014 at Theivanai Ammal College for Women, Vilupuram
33. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 26-05-2014 at Bharathidasan University, Trichy
34. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 01-06-2014 at Bharathidasan University, Trichy
35. Acted as Resource person for UGC sponsored coaching classes for NET / SLET examinations on 29-11-2014 at Bharathidasan University, Trichy
36. Acted as Resource person for UGC Sponsored workshop on “competence building initiatives” on 08-10-2014 at Poompuhar College, Melaiyur
37. Acted as Resource person to deliver a Special Lecture on “Nano-Technology” on 17-02-2015 at Khadir Mohideen College, Adirampattinam.
38. Acted as Resource person to deliver a Special Lecture on “Research Aptitude” on 31-07-2015 at Jayaraj annapackiam College, Periyakulam, Theni District.
39. Acted as Resource person to deliver a Special Lecture on “Effective Teaching and Counseling techniques” during 30-10-15 at A.V.C. College of Engineering, Mayiladuthurai.
40. Acted as Resource person to deliver a special lecture on Teaching Aptitude on 09-02- 2016 at Hajee Karutha Rowther Howdia College, Uthamapalayam.
41. Acted as Resource person to deliver a special lecture on People and Environment on 10-02-2016 at Hajee Karutha Rowther Howdia College, Uthamapalayam.
42. Acted as Resource person to deliver a special lecture on Chemistry in Everyday life on 24-02-2016 at Government Arts College, Ariyalur.

43. Acted as Resource person to deliver a special lecture on Scope of Chemistry in various field on 30-07-2016 at Vivekananda College of Arts and Sciences for Women, Tiruchengode.
44. Acted as Resource person to deliver a special lecture on Chemistry in Everyday life on 30-07-2016 at Vivekananda College of Arts and Sciences for Women, Tiruchengode.
45. Acted as Resource person to deliver a special lecture on Career Guidance for Chemistry Students on 07-02-2017 at Bharathidasan University Constituent Arts and Science Model College for Women, Veppur.
46. Acted as Resource person to deliver a special lecture on Chemistry in Everyday life on 29-07-2017 FN at Vivekenandha Arts and Science College for Women, Veerachipalayam, Sankari, Salem
47. Acted as Resource person to deliver a special lecture on Scope of Chemistry on 29-07-2017 AN at Vivekenandha Arts and Science College for Women, Veerachipalayam, Sankari, Salem
48. Acted as Organizing Committee member in the State Level Intercollegiate Extravaganza at Jamal Mohamed College, Tiruchirappalli on 20-02-2018
49. Acted as Chair Person in the Two Day National Conference on New Vistas in Material Science held at JJ College of Arts and Science, Pudukkottai on 8<sup>th</sup> and 9<sup>th</sup> March 2018.
50. Acted as Resource person for the NET/SET Coaching Class Conducted by Placement and Training cell at Bharathidasan University, Tiruchirappalli on 28-01-2018.
51. Acted as Resource person to deliver a special lecture on Personality Development and Communication Skills to the police personnel on at Police Department In-service Training Centre, Trichy 06-08-2018 AN.
52. Acted as Resource person to deliver a special lecture on Chemistry in Every Day Life at Vivekananda College of Arts and Science for Women, Tiruchengode, Namakkal on 01.09.2018
53. Acted as Resource person to deliver a special lecture on Chemistry in Scope of Chemistry in Various Disciplines at Vivekananda .College of Arts and Science for Women, Tiruchengode, Namakkal on 01-09-2018 AN
54. . Acted as Judge for the Science Exhibition Conducted by Puthiya Thalaimurai at Periyar Centenary Memorial Matriculation Higher Secondary School, Trichy on 05-10-2018.
55. Acted as Judge for the college level Elocution competition on The role of school to safe

- the Environment at Jamal Mohamed college of Teacher Education Trichy on 22.01.19
56. Acted as Resource person for the NET/SET Coaching Class Conducted by Placement and Training cell at Bharathidasan University, Tiruchirappalli on 03.02.2019
  57. Acted as Organizing Committee member in the State Level Intercollegiate Extravaganza Symphoria at Jamal Mohamed College, Tiruchirappalli on 13-02-2019
  58. Acted as Resource person for Self help groups organized by TANSCST and department of Chemistry at Government Arts College, Karur on 14.02.2019.
  59. Acted as Resource person for the NET/SET Coaching Class Conducted by Placement and Training cell at Bharathidasan University, Tiruchirappalli on 17.02.2019
  60. In-service Training Centre, Trichy on 22.02.2019 Acted as Resource person to deliver a special lecture on Environmental pollution to the police personals on at Police Department
  61. Acted as Resource person to deliver a special lecture on Safety disposal of chemicals organized by department of Chemistry at K. Ramakrishna college of Engineering Trichy on 11.03.2019.
  62. Acted as co chair person in the International conference ICSTS 2019 at EWIT Bengaluru May 13,14 and 15<sup>th</sup> 2019
  63. Acted as Judge for the Science Exhibition Conducted by Puthiya Thalaimurai at Periyar Centenary Memorial Matriculation Higher Secondary School, Trichy. on 13-07-2019.
  64. Acted as Judge for the in Drawing Oratorical competition on water forest conservation organized by UGC SWACHHTA PAKHWADA – 2020 JMC, Trichy during 16.01.2020 -31.01.2020
  65. Acted as Resource person to deliver a special lecture on Time Management to the police prison trainee Warders at warders training school central prison campus, Police Department Trichy on 17.10.20
  66. Acted as Resource person and delivered a lecture on teaching aptitude for the NET/SET Coaching Class organized by Placement and cell at JMC, Tiruchirappalli on 16.02.2021
  67. Acted as Resource person to deliver the special lecture on Teaching aptitude for the NET/SET Coaching Class Conducted by Placement and Training cell at Bharathidasan University, Tiruchirappalli on 05.03.2021
  68. Acted as Resource person to deliver the special lecture on Teaching aptitude for the NET/SET Coaching Class Conducted by Placement and Training cell at Bharathidasan University, Tiruchirappalli on 06.03.2021

69. Acted as Resource person to deliver the special lecture on people and environment for the NET/SET Coaching Class Conducted by Placement and Training cell at Bharathidasan University, Tiruchirappalli on 17.03.2021
70. Acted as Resource person to deliver the special lecture on people and environment for the NET/SET Coaching Class Conducted by Placement and Training cell at Bharathidasan University, Tiruchirappalli on 18.03.2021.
71. Acted as Resource person to deliver a special lecture on Chemistry in Everyday life organized by department of Chemistry at SRI Meenachi Vidiyal Arts and Science college , Valanadu ,Trichy on 22.12.2021
72. Acted as Judge for the National Science day celebration Conducted by Jamal Mohamed College Trichy on 25-28 th February 2022
73. Acted as Judge for Brain storm in Chem-FIESTA Conducted by PG and Research Department of chemistry , Jamal Mohamed College Trichy on 15th and 16th March 2022.
74. Acted as Resource person to deliver a Special Lecture on “How to become an Effective Teacher” on 24.11.2022at Jamal Mohamed college of Teacher Education,Trichy
75. Acted as Judge for the chem presentation JAM CHEM FEST 2023 Conducted by Jamal Mohamed College Trichy on 14March 2023
76. Acted as Judge for Periodic tio in Chem-FIESTA 2023 Conducted by PG and Research Department of chemistry , Jamal Mohamed College Trichy on 1 st March 2023.
- 77.

#### **18. Patents filed: (2 Nos)**

- Phyto Chemistry – 02

#### **19. Administrative Positions held in the College:**

1. Additional Chief – Autonomous Paper Valuation Centre -2004
2. Placement., Guidance and Counseling – Member in charge-June - 2006- June-2019
3. Entrepreneurship Development Cell – Member in charge -July 2009 – May 2010
4. Co-ordinator - Meelad Nabi Essay Competition -2012
5. Vice President of Chemistry Association – June 2011 – May 2013
6. Entrepreneurship Development Cell – EC-Member- July 2010 – June 2018
7. Examination Committee – EC Member November 2013 –2014

8. Additional Chief – Autonomous Examinations November 2013 – April 2014
9. JMC Alumni Association EC-Member 2013 – May 2023
10. Department Library incharge- April 2015-2017
11. Civil Service Examination Study Centre Member – April 2012 – May 2017
12. College Admission Committee Help Desk-Convener -April 2015-2019
13. Khajamian hostel deputy warden -April 2018- May 2022
14. IPR Cell –coordinator- June 2019- May 2023
15. Students Health care Centre- coordinator - June2018- Till Date
16. Staff Association- Secretary June 2019-2021
17. Helping Hearts Association /UGC Divyangjan Scheme Advisor -June 2020- 2022
18. Students monitoring committee –Convener 2017-2022
19. Deputy Warden -Women Hostel June 2022- till date

## **20. Details of Incharge / Membership in Committees for Autonomous Programme**

### **Implementation:**

1. Placement and Guidance and Counseling Centre
2. Entrepreneurship Development Cell
3. Examinations committee

## **21. Details of Incharge / Participation in Extracurricular Activities: (NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):**

1. Entrepreneurship Development Cell
2. Helping Hearts association
3. Students Health Care Centre
4. Students monitoring

## **22. Details of Participation in Consultancy, Training, Development etc.:**

1. Personality development and Time management training for Police Department

## **23. Details of Membership in Academic Bodies:**

1. Board of study member at Sadakathullah Appa College
2. Member, Board of Studies of Chemistry Department, Jamal Mohamed College (Autonomous), Tiruchirappalli
3. Examiner, PG Valuation Board, Bharathidasan University, Tiruchirappalli

4. Examiner, PG Valuation Board, Periyar University, Salem, Examiner,  
PG Valuation Board, Many Autonomous Colleges
5. Doctoral Committee Member for Ph. D. Scholars
6. Reviewer: Springer Journal

**Place: Tiruchirappalli**

**(DR. A. ZAHIR HUSSAIN)**